Agilent E4980A Precision LCR Meter

E4980A Data Transfer Program Operation Manual

Rev.01.20

July 2011

Notices

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Sample Program

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1. General information

Overview of the program

This program (a VBA macro for Microsoft Excel®) transfers the list sweep measurement data from the E4980A to a PC.

Supported model and firmware

Model	Firmware
E4980A Precision LCR Meter	Rev. 2.20

Required equipment

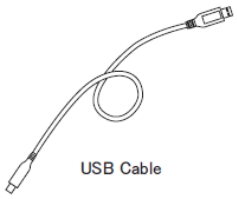
• Personal computer

* Microsoft Excel® installed

* Agilent I/O Libraries Suite 16 or higher installed

• Connection cable (Use either one of the following cables)

1. USB cable (type mini-B for E4980A side and type A male for PC side, furnished as an E4980A standard accessory)

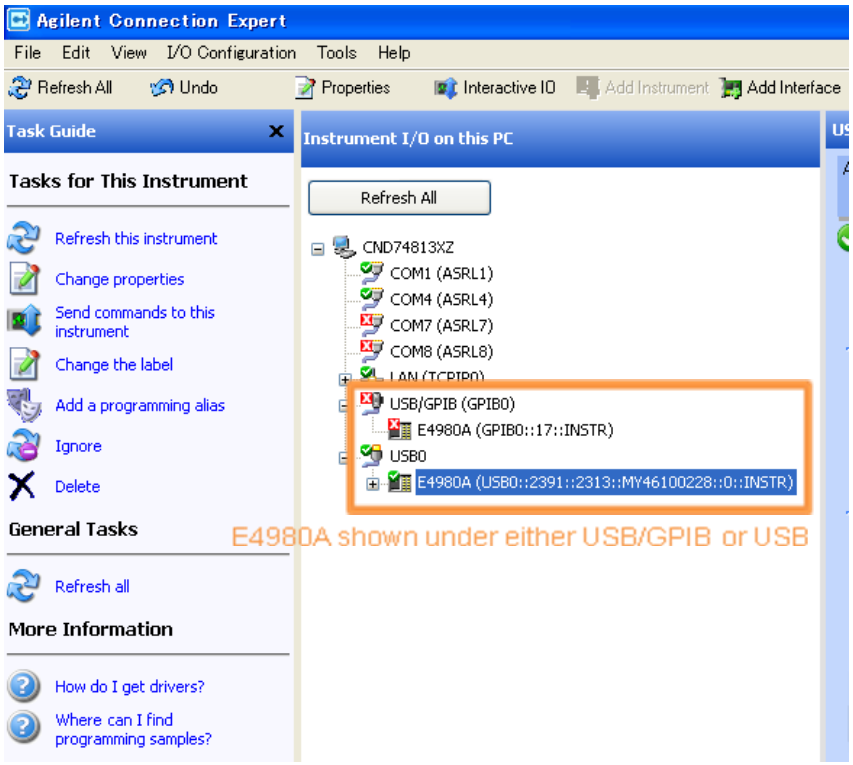


2. Agilent 82357A or 82357B USB/GPIB Interface

2. Connection configuration through Agilent Connection Expert

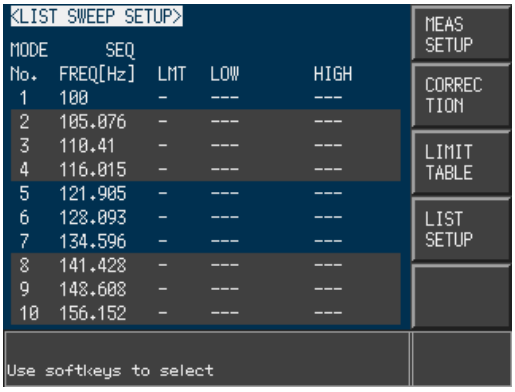
1. Run Agilent Connection Expert by double-clicking the icon in the task tray

2. Connect the E4980A and the PC using either USB cable or USB/GPIB interface. Then the connection will be automatically configured. After the connection is properly configured, the E4980A appears on “Instrument I/O on this PC” pane of Agilent Connection Expert as shown in the figure below.

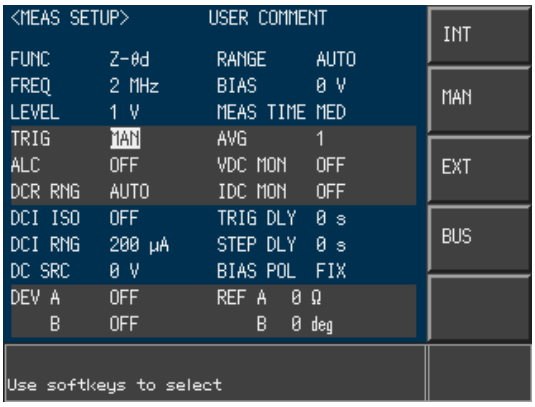


3. How to use the program

1. Set the measurement conditions for the list sweep, then perform the compensation. The E4980A can sweep frequency, test signal level, DC bias signal level, DC source level up to 201 points with the list sweep function by pressing Meas Setup hardkey > LIST SETUP softkey.



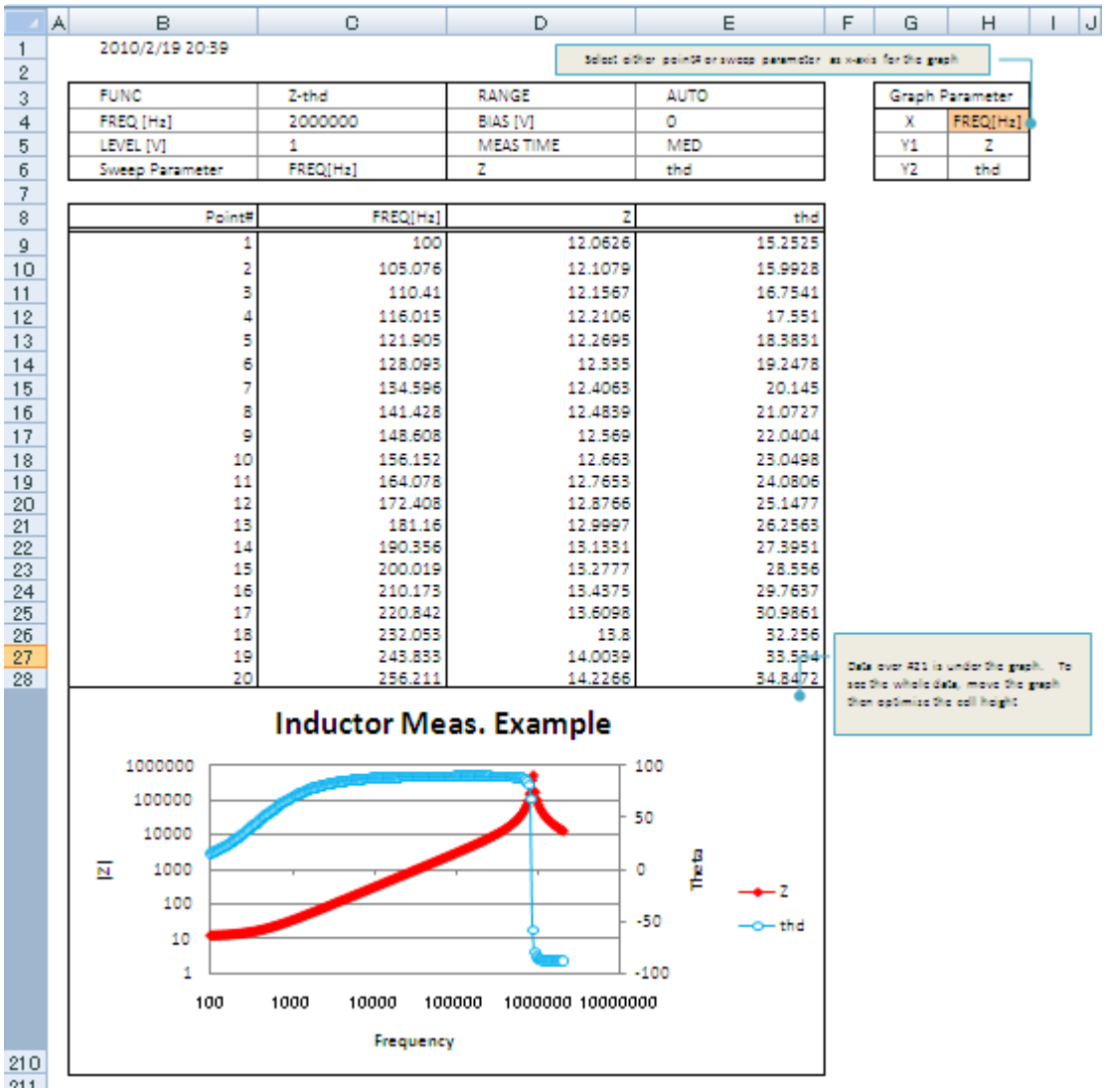
2. Set the trigger to manual mode by pressing Meas Setup hardkey, then cursor down to the TRIG field to select MAN



3. Perform the single trigger measurement with the DUT by pressing Display Format hardkey > LIST SWEEP softkey > Trigger hardkey

4. Open “E4980A_DataTransfer_xxxx.xls” on the PC. Since this file contains macros, enable “Macros” to boot the program, then follow the “Step-1” and the “Step-2” in the “Main” sheet.

5. On the newly created sheet, choose the graph parameter to show the graph properly (X/Y-axis are changed to Log format in the example below)



Revision History

Revision	Date	Description
01.20	2011/7/5	- Function added to return to local mode automatically - Function added to show measurement mode as graph title - Evaluated under Windows 7 and Excel 2010 environment - Other minor improvements implemented
01.00	2010/2/22	Initial revision